



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
PREVENTION,  
PESTICIDES  
AND TOXIC  
SUBSTANCES

June 16, 2009

DP BARCODE: D363986

MRID: 47713301

SUBJECT: CDG Solution 3000

REG. NO. OR FILE SYMBOL: 75757-2

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use [ ] OR End-use Product [X]

INGREDIENTS (PC Codes): 020503

CAS Number: 10049-04-4

TEST LAB: Case Consulting Laboratories, Inc.

SUBMITTER: CDG Research Corporation

GUIDELINE: 830.6317 and 830.6320

COMMODITIES: Formulation

REVIEWER: Chris Jiang C

ORGANIZATION: AD

APPROVER: Karen P. Hicks

APPROVED DATE: 6/16/09

COMMENT:



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**MEMORANDUM**

**Subject:** Review for 75757-2

**From:** Chris Jiang, Chemist  
Chemistry and Toxicology Team  
Product Science Branch  
Antimicrobials Division (7510P)

**Thru:** Karen P. Hicks, CT Team Leader  
Chemistry and Toxicology Team  
Product Science Branch  
Antimicrobials Division (7510P)

**Thru:** Michele E. Wingfield, Chief  
Product Science Branch  
Antimicrobials Division (7510P)

**To:** Emily Mitchell PM 32\Wanda Henson  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

**Applicant:** CDG Research Corporation

*Chris Jiang*

*Chris Jiang*  
*for KPH 6/16/09*

**Formulation from Label**

<u>Active Ingredient(s)</u>	<u>% by wt.</u>
Chlorine dioxide	0.3 %
<u>Other Ingredients</u>	99.7 %
Total	100.00 %

## **BACKGROUND:**

The registrant has submitted a label and a joint study for storage stability and corrosion characteristics (MRID 47713301) for this end-use product. This reviewer has added a Confidential Statement of Formula (CSF) for the basic formulation.

## **FINDINGS:**

1. The concentration of the active ingredient on the Confidential Statement of Formula (CSF dated July 12, 2006) is consistent with the label declaration.
2. In HPDE drums, the mean respective percentages of chlorine dioxide were 0.311, 0.282, 0.275, and 0.241 at the initial observation, after 3 months at room temperature, after 6 months + 23 days at room temperature, after 9 months + 16 days at room temperature, and after 12 months + 22 days at room temperature. In HDPE drums that were fluorinated to level 5, the mean respective percentages of chlorine dioxide were 0.296, 0.279, 0.283, 0.281, and 0.246 at the initial observation, after 3 months at room temperature, after 6 months + 23 days at room temperature, after 9 months + 16 days at room temperature, and after 12 months + 22 days at room temperature. Two replicates were averaged. The test substance must have an expiration date on the label of 9 months.
3. No changes were noted for the test substance or the packaging when they were examined for physical changes with respect to corrosion. No changes were also noted with respect to corrosion after 12 months + 22 days at room temperature on coupons composed of HDPE, HDPE fluorinated to level 5, white HDPE, black HDPE, Paxton XL HDPE, Hetron, Vipel F010, Vipel F701, Vipel F-7015, and Derakan.

## **CONCLUSIONS:**

Product Science Branch of Antimicrobials Division finds the study for 75757-2 to contain useful information for regulatory purposes. The test substance must have an expiration date on the label of 9 months as evidenced by the study for storage stability.